

SABIC Innovative Plastics LNP Thermocomp ML4351HF PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Thermocomp* ML4351HF is a Light Reflecting Grade.This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-ML4351HF-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	ASTM D 792
Density	1.29 g/cc	0.0466 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.15 %	0.15 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.35 % @Temperature 23.0 ^o C	0.35 % @Temperature 73.4 ^o F	ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	20 g/10 min @Load 10.0 kg, Temperature 250 ^o C	20 g/10 min @Load 22.0 lb, Temperature 482 ^o F	ASTM D 1238
	25 g/10 min @Load 10.0 kg, Temperature 260 ^o C	25 g/10 min @Load 22.0 lb, Temperature 500 ^o F	[cm ³ /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	59.0 MPa	8560 psi	5 mm/min; ISO 527
	65.0 MPa	9430 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	55.0 MPa	7980 psi	Type I, 5 mm/min; ASTM D 638
	55.0 MPa	7980 psi	5 mm/min; ISO 527
Elongation at Break	110 %	110 %	5 mm/min; ISO 527
	130 %	130 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	5.0 %	5.0 %	Type I, 5 mm/min; ASTM D 638

Mechanical Properties	Metric	English	Comments
Tensile Modulus	2.48 GPa	360 ksi	1 mm/min; ISO 527
	2.55 GPa	370 ksi	5 mm/min; ASTM D 638
Flexural Yield Strength	86.0 MPa	12500 psi	1.3 mm/min, 50 mm span; ASTM D 790
	90.0 MPa	13100 psi	2 mm/min; ISO 178
Flexural Modulus	2.25 GPa	326 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	2.46 GPa	357 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.80 J/cm	3.37 ft-lb/in	ASTM D 256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	8.40 J/cm	15.7 ft-lb/in	ASTM D 256
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Izod Impact, Notched (ISO)	25.0 kJ/mÂ²	11.9 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	60.0 kJ/mÂ²	28.6 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact, Notched	6.00 J/cmÂ²	28.6 ft-lb/inÂ²	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Impact Test	60.0 J	44.3 ft-lb	Instrumented Impact Total Energy; ASTM D 3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 Âµm/m-Â°C	33.3 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	60.0 Âµm/m-Â°C	33.3 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	60.0 Âµm/m-Â°C	33.3 Âµin/in-Â°F	ASTM E 831

Thermal Properties	Metric @Temperature -40.0 - 40.0 Â°C	English @Temperature -40.0 - 104 Â°F	Comments
	60.0 Âµm/m-Â°C	33.3 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	130 Â°C	266 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	130 Â°C	266 Â°F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	130 Â°C	266 Â°F	Rate B/50; ISO 306
	131 Â°C	268 Â°F	Rate B/50; ASTM D 1525
	132 Â°C	270 Â°F	Rate B/120; ISO 306

Descriptive Properties	Value	Comments
Ball Pressure Test, 75Â°C +/- 2Â°C	Passes	IEC 60695-10-2

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